



AF2 LINE

Machines for washing and disinfecting sanitary containers

www.at-os.com

Your Health, our Technology



External test validation laboratory certificate, according to Standard EN ISO 15883-1, 3 and 5.



Hydraulic system designed to insulate drinking water pipes by protecting them from backflow contamination, as prescribed by the European standard EN 1717.

AT-OS

Over 40 years of proven professionalism worldwide

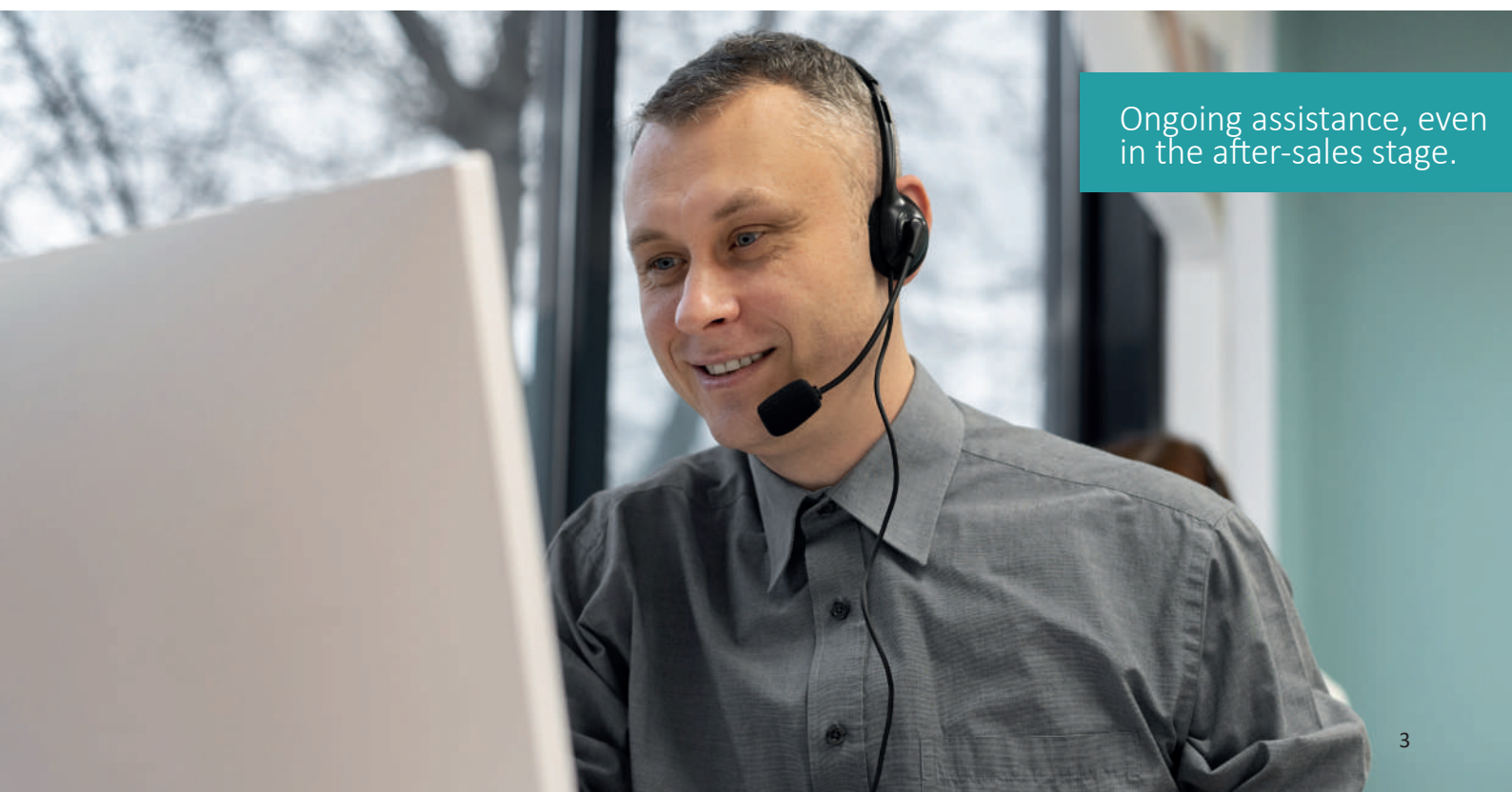
AT-OS, acknowledged as an international leader and EN ISO 13485 certified, designs, manufactures and distributes machines for washing and disinfecting human waste containers, such as bedpans, urinals, supports for disposable bedpans, commodes, kidney-shaped basins, bowls, urology bottles, bottles for blood collection and other containers used in hospitals, retirement homes, healthcare and clinics.

AT-OS products provide innovative technology in constant evolution.

All AF2 machines are produced in **Class IIA, according to DIRECTIVE 93/42/EEC (MDD)** and the subsequent **Regulation (EU) 2017/745 on Medical Devices (MDR)**, guaranteeing a high level of quality and safety. They are also compliant with the European Standards in force for washing and disinfection machines **EN ISO 15883 part 1, 3 and 5**.

The plumbing system, which complies with **European Standard EN 1717**, is designed to isolate the drinking water pipeline system from any risk of contamination (**DVGW certified**).

AT-OS gives mindful and expert after-sales technical service, guaranteeing on-site intervention whenever necessary and scheduling training sessions for employees in the health sector, in order to guarantee the correct use of the machines.



Ongoing assistance, even in the after-sales stage.

AF2

High-level disinfection from AT-OS

Concerns about the transmission of infections from one patient to another due to the use of inadequately cleaned medical devices are increasingly recognized in healthcare settings.

Hygiene, safety, total practicality and disinfection at high levels are the goals achieved by the entire range of AF2 machines, which represent an high technological standard in the field.

The wide range of supports combined with the powerful mechanical dirt removal action, allows you to wash and disinfect any type of sanitary container at any point, ensuring perfect and replicable results.

AT-OS machines offer flexible usage and customizable programs based on operator needs and a digital warning system for routine maintenance.

Thanks to AT-OS technology, during each disinfection cycle the machine automatically and constantly calculates the value A_0 , which will never be lower than the factory settings, **to always ensure perfect disinfection!**



Excellent results



Optimised space



Colour graphic display



Perfect disinfection



High reliability



PC connection

Customised solutions

Thanks to the professionalism of our internal team, we can satisfy any design need, adapting our AF2 machines in all possible spaces.

The experience and professionalism of the AT-OS team, combined with the accuracy of the projects, ensures the solution of any installation problem, both for new systems and for the renovation of old structures or the replacement of obsolete equipment. This applies to both fully furnished washing and disposal rooms and assisted bathrooms, at no additional cost, with the advantage of quick assembly thanks to the wide range of models available.

Depending on the size of the room, the machines can be installed in different ways:

- **Floor**
- **Wall-mounted wall units**
- **Built-in, with or without WC**
- **Built-in under counter**

In addition, they can be installed in modern solutions including sluice units, sinks and storage cabinets. Our sanitary units can also be supplied with unique water supplies and drainage systems, as well as sizes and solutions suitable for the size of the premises and customer needs.

AT-OS supports its customers providing technical documentation and installation diagrams tailored to specific needs, for turnkey projects for emptying sluice rooms and disinfection.



Program and monitor the machine via Windows PC, with the **WinATOSMonitor** software or by installing the **AT-OS APP AF2** on Android tablets and smartphones.



AT-OS APP AF2

The user-friendly application connects to the machine via Bluetooth. Simplifies and speeds up monitoring and programming of the machine with downloadable reports, in PDF and Excel, directly on your Android device.

DOWNLOAD IT NOW



NEW N.T.T. TECHNOLOGY

Cross-contamination?

Zero Risk!

One of the risks to be absolutely avoided is the danger caused by the transmission of infections from one patient to another, through the use of improperly cleaned and sanitised devices.

The new N.T.T. technology makes it possible to manage all door opening and closing operations, sealed chamber emptying, washing and disinfection as well as the start of the desired programmes with a simple hand gesture. Each operation is performed automatically, eliminating any risk of contamination for the operators and the patients themselves.

The optical sensor means that operators' hands never need to come into contact with the machine, guaranteeing the **highest standard of hygiene** and a **total absence of bacteria** on the surfaces of the machine.

If the disinfection treatment is not completed, a safety device keeps the access door to the washing chamber locked to prevent any contamination to the outside.

Available only on the AF2.50 and AF2.60 models with automatic doors.

It only takes a single hand gesture to safely start a wash cycle!





HYGIENE, SAFETY AND TOTAL DISINFECTION

Eliminate any risk of contamination for operators!

The optical sensor ensures total protection of surfaces and helps stop the spread of viruses.

Moving the hand, in front of the optical sensor, the operator can open and close the door and start the desired programme without touching the panel.

DOOR OPENING/CLOSING SYSTEMS AND START OF THE WASHING CYCLE

Opening the manual door + starting the washing cycle via the touch control panel.



OPENING/CLOSING THE DOOR



START OF THE WASHING CYCLE WITH TOUCH PANEL

Automatic door opening by means of optical sensor or pedal + start of the washing cycle by means of push pads.



DOOR OPENING/CLOSING SYSTEMS



START OF THE WASHING CYCLE WITH PUSH PADS

Automatic door opening via optical sensor or pedal + start of the washing cycle via touch control panel.



DOOR OPENING/CLOSING SYSTEMS



START OF THE WASHING CYCLE WITH TOUCH PANEL

NO TOUCH TECHNOLOGY version with automatic opening/closing and starting *



DOOR OPENING/CLOSING SYSTEMS



START OF THE WASHING CYCLE WITH THE SIMPLE MOTION OF THE HAND IN FRONT OF THE N.T.T PANEL

*only for the AF2.50 and AF2.60 models

AF2 COMPACT LINE

AF2.45 STAND-ALONE MODELS

AF2.45PG

Stainless steel manual door and built-in steam generator.

AF2.45PV

Manual door, panel with N.T.T. sensor and steem line connection.



AF2.45PEG

Automatic stainless steel door, push pads and built-in steam generator.

AF2.45PEV

Automatic stainless steel door, push pads and steam line connection.

AF2.45 WALL-HUNG MODELS

AF2.45MG

Stainless steel manual door and built-in steam generator.

AF2.45MV

Manual door, panel with N.T.T. sensor and steem line connection.



AF2.45MEG

Automatic stainless steel door with push pads and built-in steam generator.

AF2.45MEV

Automatic stainless steel door with elbow push buttons and steam network connection.

AF2.50 STAND-ALONE MODELS

AF2.50PG

Stainless steel manual door and built-in steam generator.

AF2.50PV

Manual door, panel with N.T.T. sensor and steem line connection.



AF2.50PEG

Automatic stainless steel door with N.T.T. sensor panel and built-in steam generator.

AF2.50PEV

Automatic door, panel with N.T.T. sensor and steem line connection.

AF2 PROFESSIONAL LINE

AF2.60 STAND-ALONE MODELS

AF2.60PG

Stainless steel manual door and built-in steam generator.

AF2.60PV

Manual door, panel with N.T.T. sensor and steam line connection.



AF2.60PEG

Automatic stainless steel door with N.T.T. sensor and built-in steam generator.

AF2.60PEV

Automatic stainless steel door with N.T.T. sensor and connection to steam network.

AF2.60 WALL-HUNG MODELS

AF2.60MG

Manual stainless steel door with built-in steam generator.

AF2.60MV

Manual door, panel with N.T.T. sensor and steam line connection.



AF2.60MEG

Automatic stainless steel door with N.T.T. sensor and built-in steam generator.

AF2.60MEV

Automatic stainless steel door with N.T.T. sensor and connection to steam network.

AF2.90 UNDER-COUNTER MODELS WITHOUT WORKTOP

AF2.90G

Manual door and built-in steam generator.

AF2.90V

Manual door and steam network connection.



AF2.90 PLINTH MODELS WITH WORKTOP

AF2.90AG

Automatic door and built-in steam generator.

AF2.90AV

Automatic door and steam network connection.

AF2.90BG

Manual door and built-in steam generator.

AF2.90BV

Manual door and steam network connection.



AF2.90BAG

Automatic door and built-in steam generator.

AF2.90BAV

Automatic door and steam network connection.

AF2X

with double load capacity

The AF2X* version is a model from the Professional line which offers improved load capacity thanks to the special, extra-length jet nozzles inside the washing chamber.

BENEFITS:

- Lower consumption;
- Reduction of operating costs;
- Time-saving.

VARIOUS LOAD CONFIGURATIONS:

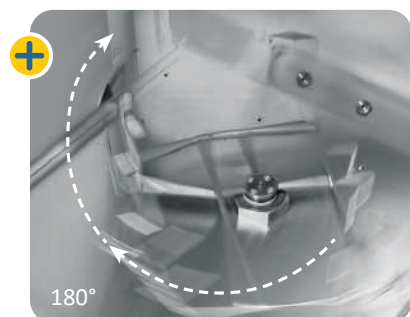
- 2 urinals + 2 bedpans + 2 covers;
- 2 urinals + 1 commode;
- various combinations of urinals with urology containers, kidney-shaped basins and bottles.



ET Version

automatic turning system for slipper bedpans

The **ET system*** offers a support with an automatic turning mechanism built into the inside panel of the door.



The **patented AT-OS rotating support** allows the operator to position the slipper bedpan with the handle towards the outside. At the start of the program, the support will rotate 180°, allowing automatic drainage of organic waste without operator assistance. This solution further decreases contamination risks.

*Available only for the AF2.60 and AF2.90 models.

TECHNICAL FEATURES



Stainless steel design

The machine is made from AISI 304 stainless steel (EN 1.4301), guaranteeing shock-resistance and durability over time. Cleaning operations are made easier thanks to the Scotch Brite finish on the exterior surfaces.



E.H.M.I. (Easy Human-Machine Interface)

Control keyboard with graphic display that shows all the phases of the chosen program, the minimum temperature present in the chamber throughout the cycle, the different phases of the cycle, alarm messages with maintenance instructions, value "A₀", graphic drawings to explain the work process and indication of the remaining time at the end of the cycle.



Touch control panel with colour graphic display

The touch control panel consists of backlit keys and a 3.5" LCD flat colour display for quick and intuitive navigation.



E.N.C. (Electronic Nozzles Control)

Electronically controlled washing jets with independent solenoid valves, to improve washing performance depending on the type of container to be washed.



Micro-controller

The machine is equipped with a micro-controller that continuously monitors operation.

It is equipped with an internal flash memory that allows the machine to store all the information related to: cycle parameters, programs used, alarms and log history up to 5,000 cycles. An internal supervision timer controls the micro-controller and locks the device in case of malfunction.



Alarm-check system

This system helps the operator to understand why an alarm occurred before consulting the user manual. A text with the number, an alarm image and text explaining the possible causes appears on the display.



Door locking safety system

Machines are equipped with an automatic locking system that guarantees the locking of the door safely. For the safety of the operators, the machine does not allow the door to be unlocked during the washing cycle or in conditions where there are high temperatures. An extra sensor ensures that even in the event of a machine malfunction, the water pump shuts off when the door is unlocked.



S.D.S. (Self Disinfection System)

Function that allows the machine to automatically run a disinfection program, 24 hours after the last cycle. This system prevents the proliferation of bacteria inside the machine.



E.T.S. (Empty Total System)

System that prevents the proliferation of bacterial growth by reducing the risk of contamination of the machine, according to EN ISO 15883-1, 5.3.1 & 5.5.1. At the end of each cycle, the water is automatically discharged from the pump, the storage tank and the pipes.



D.C.S. (Drain Control System)

Anti-flooding system that prevents the machine from being used in the event of a clogged siphon.



USB port

USB port to connect the machine to a PC for programming and downloading statistics on executed cycles.



Chemical storage compartment

Access to the chemical storage compartment located in the lower panel is prevented to unauthorised persons by means of a door with a lock.



Chemical level sensor

The device is equipped with a sensor located in a chemical suction probe, which warns the user if the liquid is about to run out via a warning that appears on the LCD display.



Steam generator

In the AF2 models featuring a steam generator, the water in the storage tank is fed into a small boiler during each washing cycle, where it is heated thanks to a coil; the steam generated is fed into the chamber during the disinfection phase. The device software automatically sets the disinfection temperature and duration. The steam generator is equipped with an internal probe to control the water level and a protective thermostat.



Safety thermostat

The AF2 models with a steam generator feature a safety thermostat that interrupts the power supply to the steam generator's resistors when the temperature of the heating elements exceeds a certain limit, creating a risk of damage to the resistors themselves.



Descaler dosing pump

The AF2 models with a steam generator feature a dosing pump which automatically adds descaler during the basin rinse phase preceding disinfection, and during the rinse phase in accordance with the DWC system.



Detergent dosing pump

On request, the machine can be equipped with a dosing pump which automatically adds a detergent during the hot-water washing stage.



HDS[®] (High Disinfection System)

On request, the machine can be equipped with an HDS application. This is a special ©AT-OS programme with a system for directly spraying detergent through a dosing pump, thereby eliminating micro-organisms, in particular *Clostridium Difficile* spores, in compliance with the requirements of EN 15883-1/3.

Test approved by the University of Bonn (Germany).



Chemical product quantity monitoring

The chemical dosage pumps are controlled by a flowmeter. If the flowmeter does not detect the flow of a set quantity of liquid, an alarm appears on the display after a few seconds to warn the operator that no liquid is flowing into the washing chamber.



D.W.C. - Disinfected Water Cooling

The models with a steam generator feature an automated system for the prompt disinfection of the water used in the final rinse, to lower the temperature of the washing chamber and ensure the absence of microbial contaminants in accordance with EN ISO 15883-1 p. 5.3.5.



Pedal door opening

Operators can use the pedal at the bottom of the machine to open and close the door on models with an automatic door (excluding the wall-hung versions).



Hands-free start-up

The automatic models with steel panels can be equipped with elbow-push buttons. The user can start the machine without removing their gloves, by pressing the buttons with their elbow.

**not available for the AF2.90 model*



Optical sensor for automatic door opening

All automatic models are equipped with an optical sensor located in the control panel, which allows the door to be opened and shut without touching the surfaces of the machine.



N.T.T. No-Touch Technology

The automatic versions of the AF2.50 and AF2.60 models are equipped with a No-Touch Technology system. By passing a hand in front of the optical sensors at a distance, the operator starts the washing cycle. Eliminates the risk of cross-infection.


 **Multiwasher Application**

On request, the machine can be equipped with an application to use the multi-washer basket. This program is specific for multi-purpose support. It consists of a basket with two rotating arms for the decontamination of generic items. The multiwasher is suitable for all types of accessories or containers that do not need to be reprocessed in the sterilisation department.

**not available for the X versions*

 **D.V.S. (Disinfection Validation System)**

On request, the machine can be equipped with 3 PT1000 temperature probes at different points in the washing chamber, to ensure accurate monitoring of disinfection.


 **A.C.S. (Air Cooling System)**

On request, the machine can be equipped with a patented system for cooling the tank and drying the containers, with the use of air at room temperature and a HEPA H14 filter.

The application involves the insertion of a condenser that atomises the steam during the drying phase, preventing the AEROSOL effect for the operator and thermodynamic contamination of the room.

 **AT-OS AF2 APP with Bluetooth app**

On request, the machine can be equipped with wireless connection via Bluetooth technology. This allows a connection between the AT-OS machines and an Android device. The easy-to-use application, for tablets and Android smartphones, simplifies and speeds up monitoring and programming of machines with online updates of improvements.

 **Key:**
Applications available only on request.



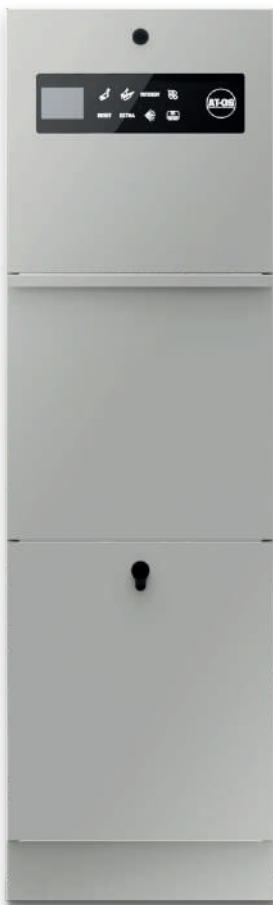
AF2.45PG | AF2.45PEG AF2.45PV | AF2.45PEV

Stand alone

Column floor-mounted bedpan washers equipped with a plinth for floor installation. These can be fitted either on their own or combined with furnishings and/or accessories, with floor or wall drainage, according to needs. Models are divided into machines with a manual or automatic door and are equipped with an internal steam generator or connected to a steam line.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site. After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.



**AF2.45PG
AF2.45PV**



**AF2.45PEG
AF2.45PEV**

■ Technical specifications

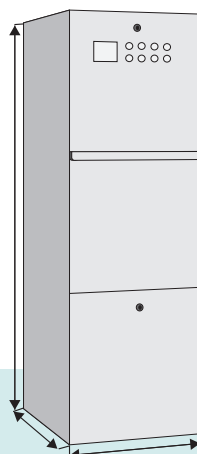
Model	AF2.45PG	AF2.45PEG	AF2.45PV	AF2.45PEV
Internal dimensions of the washing chamber (WxDxH)	400 x 310 x 550 mm (15.7" x 12.2" x 21.6")	400 x 310 x 550 mm (15.7" x 12.2" x 21.6")	400 x 310 x 550 mm (15.7" x 12.2" x 21.6")	400 x 310 x 550 mm (15.7" x 12.2" x 21.6")
Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	735 mm (28.1")	735 mm (28.1")	735 mm (28.1")	735 mm (28.1")
Indicative weight	85 Kg (187 lbs)	88 Kg (194 lbs)	80 Kg (176 lbs)	83 Kg (183 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Max flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	17	17	17	17
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	2	2	2	2
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✓	✗	✓	✗
Interlocked automatic door	✗	✓	✗	✓
ACS- Air Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✗	✗	✓	✓
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC

■ External dimensions

AF2.45PG | AF2.45PEG

AF2.45PV | AF2.45PEV

WxDxH: 450 x 500 x 1500 mm
(17.7" x 19.7" x 59.1")



- ✓ Standard
- On request
- ✗ Unavailable

The reference values are based on the standard model.

AF2.45MG | AF2.45MEG AF2.45MV | AF2.45MEV

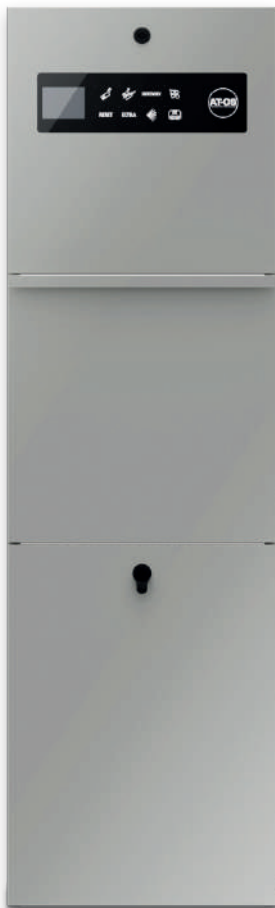
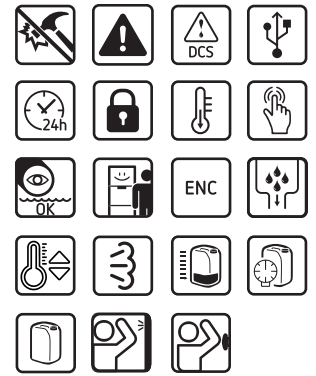
Wall-hung

Wall-mounted bedpan washers with mounting brackets, equipped with wall drain, ideal for allowing all workspaces to be properly cleaned, even under machinery. Models are divided into machines with a manual or automatic door and are equipped with an internal steam generator or connected to a steam line. These models can also be wall-mounted with an assembly frame, and have small components for securing a toilet and fitting for drainage, this allows you to insert the machine even inside the patient's room.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site.

After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.



**AF2.45MG
AF2.45MV**



**AF2.45MEG
AF2.45MEV**

Wall-mounted built-in models



**With built-in
and/or WC application**

■ Technical specifications

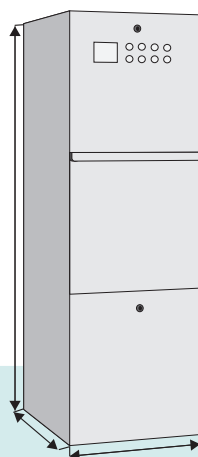
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Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	835 mm (32.8")	835 mm (32.8")	835 mm (32.8")	835 mm (32.8")
Indicative weight	83 Kg (183 lbs)	86 Kg (190 lbs)	78 Kg (172 lbs)	81 Kg (179 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Max flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	17	17	17	17
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	2	2	2	2
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✓	✗	✓	✗
Interlocked automatic door	✗	✓	✗	✓
ACS- Air Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✗	✗	✓	✓
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC

■ External dimensions

AF2.45MG | AF2.45MEG

AF2.45MV | AF2.45MEV

WxDxH: 450 x 500 x 1500 mm
(17.7" x 19.7" x 59.1")



- ✓ Standard
- On request
- ✗ Unavailable

The reference values are based on the standard model.

AF2.50PG | AF2.50PEG AF2.50PV | AF2.50PEV

Stand alone

Column floor-mounted bedpan washers equipped with a plinth for floor installation. These can be fitted either on their own or combined with furnishings and/or accessories, with floor or wall drainage, according to needs. Models are divided into machines with manual or automatic door and No Touch technology. Steam generators can be integrated, alternatively they can be connected to the steam line.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site. After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.



**AF2.50PG
AF2.50PV**



Model with
N.T.T.
sensor

**AF2.50PEG
AF2.50PEV**

Technical specifications

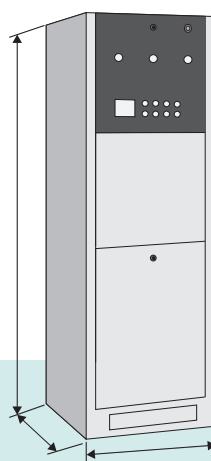
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Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	895 mm 35.2	895 mm 35.2	895 mm 35.2	895 mm 35.2
Indicative weight	85 Kg (187 lbs)	85 Kg (187 lbs)	80 Kg (176 lbs)	80 Kg (176 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Maximum flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	17	17	17	17
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	2	2	2	2
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883.	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✓	✗	✓	✗
Interlocked automatic door	✗	✓	✗	✓
ACS- Air Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✗	✗	✓	✓
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDR, IEC, EMC	EN ISO 15883, MDR, IEC, EMC	EN ISO 15883, MDR, IEC, EMC	EN ISO 15883, MDR, IEC, EMC

External dimensions

AF2.50PG | AF2.50PEG

AF2.50PV | AF2.50PEV

WxDxH: 500 x 500 x 1700 mm
(19.7" x 19.7" x 66.9")



- ✓ Standard
- On request
- ✗ Unavailable

The reference values are based on the standard model.

AVAILABLE

AF2X version with greater load capacity, and ET version with automatic turning system

AF2.60PG | AF2.60PEG AF2.60PV | AF2.60PEV

Stand alone

Column floor-mounted bedpan washers equipped with a plinth for floor installation. These can be fitted either on their own or combined with furnishings and/or accessories, with floor or wall drainage, according to needs. Models are divided into machines with manual or automatic door and No Touch technology. Steam generators can be integrated, alternatively they can be connected to the steam line.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site. After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.



**AF2.60PG
AF2.60PV**



Model with N.T.T. sensor

**AF2.60PEG
AF2.60PEV**

Technical specifications

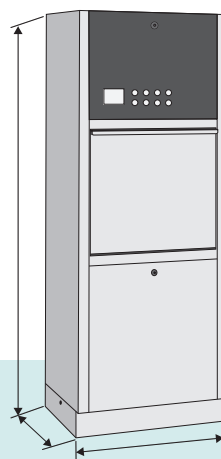
Model	AF2.60PG	AF2.60PEG	AF2.60PV	AF2.60PEV
Internal dimensions of the washing chamber (WxDxH)	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")
Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	808 mm (31.8")	808 mm (31.8")	808 mm (31.8")	808 mm (31.8")
Indicative weight	99 Kg (218 lbs)	102 Kg (225 lbs)	94 Kg (207 lbs)	97 Kg (214 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Maximum flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	11	11	11	11
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	1	1	1	1
3 x PT100 sensors for DSV (Disinfection Validation System)	●	●	●	●
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883.	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✓	✗	✓	✗
Interlocked automatic door	✗	✓	✗	✓
ACS- Air Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✗	✗	✓	✓
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC

External dimensions

AF2.60PG | AF2.60PEG

AF2.60PV | AF2.60PEV

WxDxH: 600 x 450 x 1650 mm
(23.3" x 17.7" x 64.9")



- ✓ Standard
- On request
- ✗ Unavailable

The reference values are based on the standard model.

AF2.60MG | AF2.60MEG AF2.60MV | AF2.60MEV

Wall-hung

Wall-mounted bedpan washers with mounting brackets, equipped with wall drain, ideal for allowing all workspaces to be properly cleaned, even under machinery. Models are divided into machines with manual or automatic door and No Touch technology. Steam generators can be integrated, alternatively they can be connected to the steam line.

These models can also be wall-mounted with an assembly frame, and have small components for securing a toilet and fitting for drainage, this allows you to insert the machine even inside the patient's room.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site.

After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.

AVAILABLE
AF2X version with greater load capacity, and ET version with automatic turning system



Wall-mounted built-in models



Model with N.T.T. sensor



AF2.60MG
AF2.60MV

AF2.60MEG
AF2.60MEV

With built-in and/or WC application

■ Technical specifications

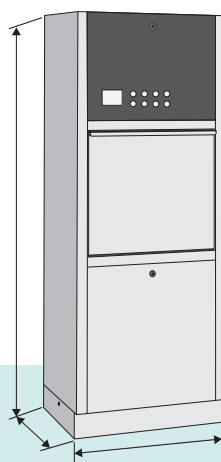
Model	AF2.60MG	AF2.60MEG	AF2.60MV	AF2.60MEV
Internal dimensions of the washing chamber (WxDxH)	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")
Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	908 mm (35.7")	908 mm (35.7")	908 mm (35.7")	908 mm (35.7")
Indicative weight	97 Kg (214 lbs)	100 Kg (220 lbs)	92 Kg (203 lbs)	95 Kg (209 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Maximum flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	11	11	11	11
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	1	1	1	1
3 x PT100 sensors for DSV (Disinfection Validation System)	●	●	●	●
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883.	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✓	✗	✓	✗
Interlocked automatic door	✗	✓	✗	✓
ACS- Air Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✗	✗	✓	✓
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC

■ External dimensions

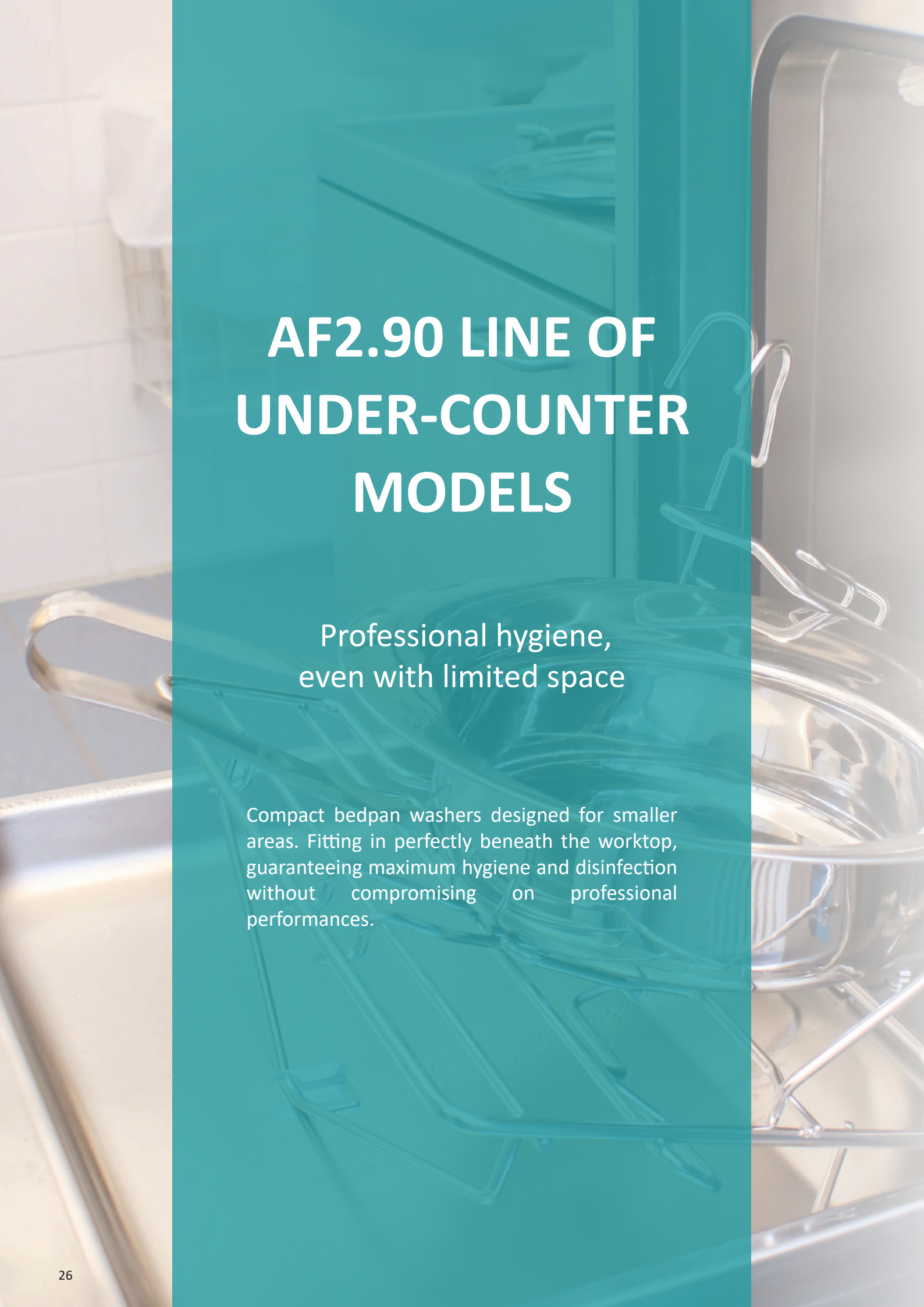
AF2.60MG | AF2.60MEG

AF2.60MV | AF2.60MEV

WxDxH: 600 x 450 x 1550 mm
(23.3" x 17.7" x 61")



- ✓ Standard
- On request
- ✗ Unavailable



AF2.90 LINE OF UNDER-COUNTER MODELS

Professional hygiene,
even with limited space

Compact bedpan washers designed for smaller areas. Fitting in perfectly beneath the worktop, guaranteeing maximum hygiene and disinfection without compromising on professional performances.

Perfect for smaller areas, ready for any challenge

The AF2.90 under-counter models are the ideal solution for healthcare facilities that require **advanced hygiene even with limited space**.

Designed for installation beneath the worktop, they combine **efficiency, safety and ease of use** in a compact format.

Automatic cycles at high temperatures guarantee the complete disinfection of bedpans and urinals, **reducing the risks of contamination and optimising workflows**.

Perfect for in-patient wards, nursing homes and modern hospital environments.

AVAILABLE
 AF2X version with greater load capacity, and ET version with automatic turning system

AF2.90AG | AF2.90G AF2.60AV | AF2.90V

Under-counter without worktop

Under-counter bedpan washers without a worktop, perfect for slotting into pre-existing furnished layouts, with the ability to adapt to smaller working areas too.

Models are divided into machines with a manual or automatic door and are equipped with an internal steam generator or connected to a steam line.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site.

After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.



AF2.90G
 AF2.90V



AF2.90AG
 AF2.90AV

■ Technical specifications

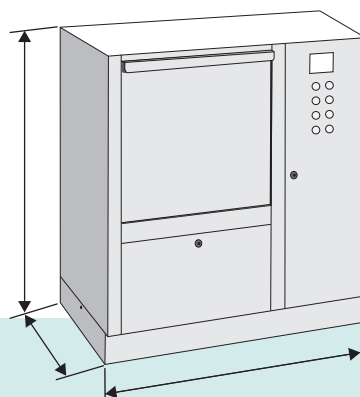
Model	AF2.90G	AF2.90AG	AF2.90V	AF2.90AV
Internal dimensions of the washing chamber (WxDxH)	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")
Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	630 mm (24.8")	630 mm (24.8")	630 mm (24.8")	630 mm (24.8")
Indicative weight	76 kg (16 lbs)	79 Kg (174 lbs)	76 Kg (168 lbs)	81 Kg (179 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Maximum flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	11	11	11	11
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	1	1	1	1
3 x PT100 sensors for DSV (Disinfection Validation System)	●	●	●	●
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883.	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✗	✓	✗	✗
Interlocked automatic door	✓	✗	✓	✓
ACS- Air Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✓	✓	✓	✗
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC

■ External dimensions

AF2.90AG | AF2.90G

AF2.90AV | AF2.90V

WxDxH: 900 x 600 x 860 mm
(35.4" x 23.6" x 33.9")



- ✓ Standard
- On request
- ✗ Unavailable

AVAILABLE
 AF2X version with greater load capacity, and ET version with automatic turning system

AF2.90BAG | AF2.90BG AF2.60BAV | AF2.90BV

Under-counter with worktop

Under-counter bedpan washers with a worktop. Stand-alone or suitable for slotting into pre-existing furnished layouts.

Models are divided into machines with a manual or automatic door and are equipped with an internal steam generator or connected to a steam line.

Thanks to a drop-down door, sanitary containers are emptied automatically, the waste is discharged into the washing chamber and then into the sewage system at the installation site.

After a first washing phase, the sanitary containers are disinfected using high temperature steam which, via an internal control system, allows a level of disinfection at the highest quality standards.

A wide variety of supports complete these machines, suitable for washing and disinfecting all types of sanitary containers.



**AF2.90BG
 AF2.90BV**



**AF2.90BAG
 AF2.90BAV**

■ Technical specifications

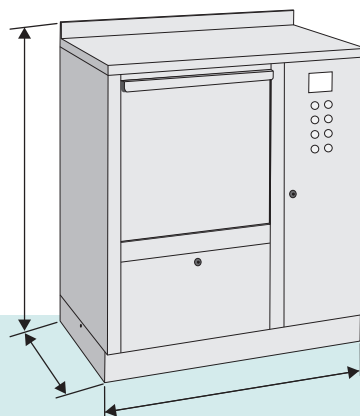
Model	AF2.90BG	AF2.90BAG	AF2.90BV	AF2.90BAV
Internal dimensions of the washing chamber (WxDxH)	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")	500 x 295 x 600 mm (19.6" x 11.6" x 23.6")
Washing chamber volume	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)	65 lt (17.17 US gal)
Washing chamber material	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)	AISI 316L (EN 1.4404)
Load height (H)	630 mm (24.8")	630 mm (24.8")	630 mm (24.8")	630 mm (24.8")
Indicative weight	102 Kg (225 lbs)	105 Kg (231 lbs)	97 Kg (214 lbs)	100 Kg (220 lbs)
Max dBA noise during wash phases	<54 dB (A)	<54 dB (A)	<54 dB (A)	<54 dB (A)
Maximum flow rate of washing pump	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)	350 l/min (0.3 GPM)
No. washing jets	11	11	11	11
Max. number of chemical dosing pumps with flowmeters	2	2	2	2
Chemical tank capacities	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)	5 l (1 US gal)
Anti-limescale dosing pump	✓	✓	✓	✓
PT1000 temperature sensors in washing chamber	1	1	1	1
3 x PT100 sensors for DSV (Disinfection Validation System)	●	●	●	●
Setting the A ₀ value between 60 and 12,000 according to EN ISO 15883.	✓	✓	✓	✓
Communication ports	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232	1 pc USB for PC and FLASH DRIVE (optional); 1 pc Bluetooth (optional); 1 pc RS232
Touch control panel	✓	✓	✓	✓
Interlocked manual door	✗	✓	✗	✓
Interlocked automatic door	✓	✗	✓	✗
Drying by ACS- Air-Cooling System	●	●	✓	✓
HEPA filter H14	●	●	✓	✓
Cold water fitting	✓	✓	✓	✓
Hot water fitting	✓	✓	✓	✓
Steam line fitting	✗	✗	✓	✓
(E.T.S.) Empty Total System	✓	✓	✓	✓
Regulations	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC	EN ISO 15883, MDD, MDR, IEC, EMC

■ External dimensions

AF2.90BAG | AF2.90BAV

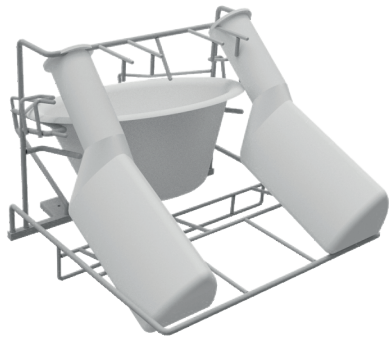
AF2.90BG | AF2.90BV

WxDxH: 900 x 600 x 1000 mm
(35.4" x 23.6" x 39.3")



- ✓ Standard
- On request
- ✗ Unavailable

AF2 Supports and Baskets for C-line



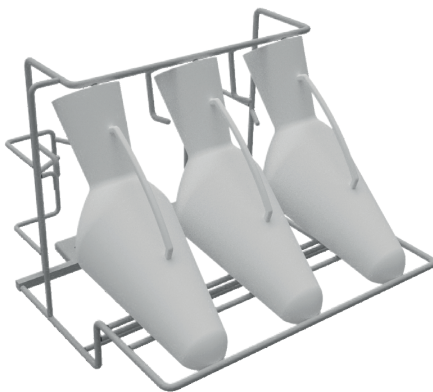
Support 108

Support in stainless steel designed to wash 3 urinals, or 1 bedpan and 2 urinals, or 1 commode, 1 basin or 1 jug. For the C-Line model.



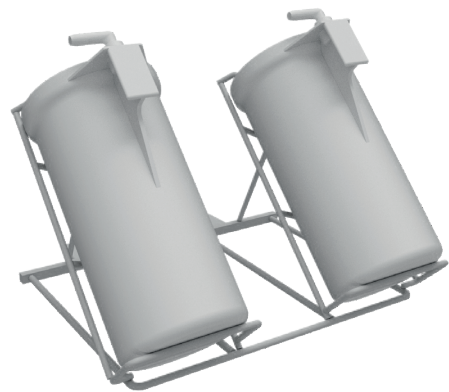
Support 127

Support in stainless steel designed to wash 3 urinals simultaneously. For the C-Line model.



Support 145

Support in stainless steel for washing up to 3 urinals simultaneously. For the C-Line model.



Support 168

Support in stainless steel for washing up to 2 jugs (max. Ø 160 mm / 6.3"). For the C-Line model.

OTHER SUPPORTS AVAILABLE

ACCESSORIES CATALOGUE FOR EACH MODEL

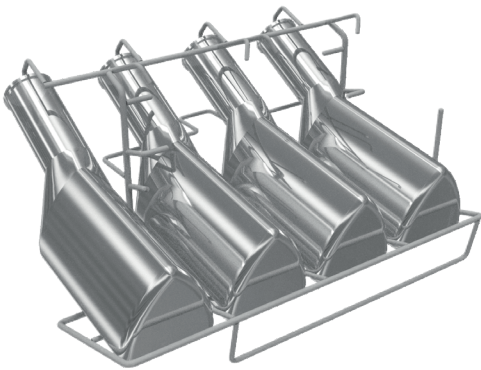
Do you want to know about all the supports?

Contact us to request our accessories catalogue with full details!

info@at-os.com

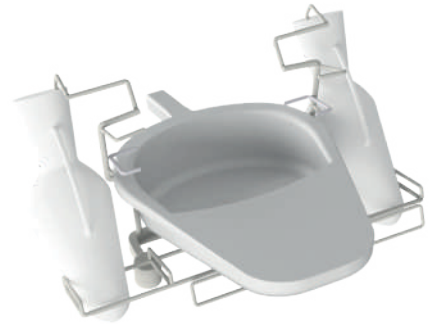


AF2 Supports and Baskets for P-line



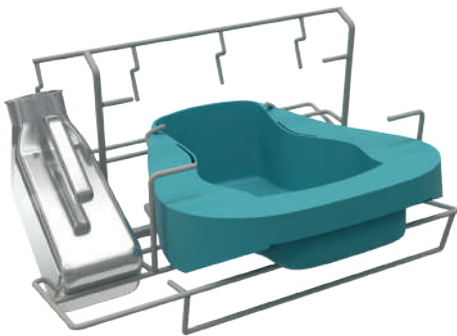
Support 020

Support in stainless steel for washing, basic version. Designed to wash 1 urinal and 1 bedpan, or 4 urinals. For the P-Line model.



Support 009

Support in stainless steel for washing up to 2 urinals and 1 bedpan simultaneously. For the P-Line model.



Support 048

Support in stainless steel for washing up to 4 urinals simultaneously, or 1 bedpan and 1 urinal, or 1 commode and 1 urinal, or 1 basin and 1 urinal. For the P-Line model.



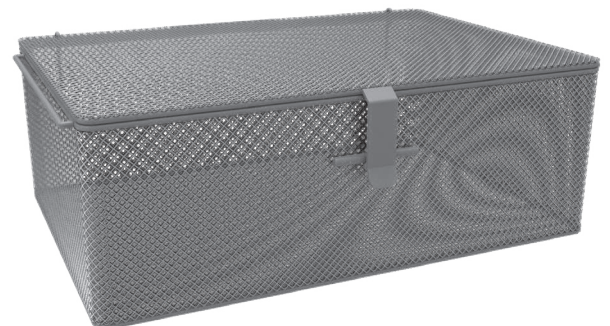
Support 066 - Multiwasher

Support in stainless steel for washing a wide variety of equipment. For the P-Line model.



Support 119

Support in stainless steel for cutting and washing urine bags. For the P-Line model.



Support 007

Basket in stainless steel with cover for washing small items, kidney trays and surgical tools. For the P-Line model.

Sluice units range

The ideal accessory for even safer waste management!

The **AT-OS sluice unit** is the perfect addition to your bedpan washer, designed to improve efficiency and hygiene in healthcare facilities.

Made entirely of stainless steel, our sluice unit ensures safe and hygienic management of liquid and solid waste, helping to maintain a **clean and safe environment**.

The **ease of cleaning** and resistance to disinfectant chemicals ensures high-level disinfection, essential for the **prevention of infections**.

Simple and quick installation makes it an essential accessory for any healthcare facility that aims to optimise its operational processes.

In addition, its **compact and functional design** allows it to easily fit into confined spaces, without compromising the ergonomics of the work area. With our sluice unit, you can be sure of offering a superior quality service, while improving the **safety and efficiency of your staff**.



Sluice unit with automated ring washing system and internal tank and pump

- ◀ Available sizes:
Width: 45/60 cm
17.71"/23.6"



EMPTYING



FLUSHING



Sluice unit with annular washing of the basin connected to the washing and disinfecting machine

- ◀ Available sizes:
Width: 45/60 cm
17.71"/23.6"

- ◀ Available for models:
AF2.45 | AF2.50



EMPTYING



FLUSHING

Sluice room accessories



Stainless steel drip and storage shelves



**Storage rack for
BEDPANS AND
URINALS**



**Storage rack for
URINALS**



**Storage rack for
BEDPANS**



**SHELVING
UNIT**

Storage cabinets and work tops with basins



**STAINLESS STEEL
TOP CABINET**

Closed with hinged door to be installed above the washing and disinfecting machine.



**STAINLESS STEEL
WALL CABINET**

Stainless steel wall-hung cabinets open or with hinged doors. Internal heating available.



**WORKTOPS
WITH BASIN**

Stainless steel work tops with basins in customised dimensions. RADIUS 15° version available to prevent dirt deposits and to ease cleaning.

OTHER FURNISHINGS AVAILABLE



EVEN MORE SOLUTIONS IN THE FURNISHINGS CATALOGUE!

**Want a tailor-made
design for your
sluice unit?**

Contact us
for your turnkey project!

info@at-os.com

HOSPITAL

DENTAL

LABORATORY

DRYING AND STORAGE CABINETS

CSSD

RETIREMENT HOMES

STAINLESS STEEL FURNISHINGS



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CE₀₁₂₃